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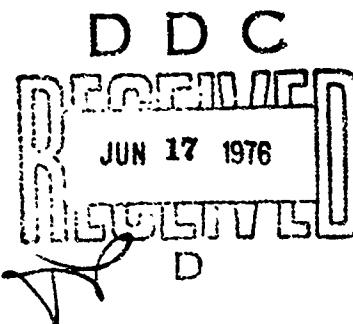
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19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Computer Technology Computer Networking			
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A selected bibliography has been developed of all documentation concerning research and development in the area of computer networking. This Program involved a great number of contractors and government organizations who cooperated in the development of the ARPANET system of computer inter- actions on a worldwide basis.			

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## PREFACE

The network of computers and communications developed by the Advanced Research Projects Agency of the Department of Defense represents a major breakthrough in computer networking. ARPANET, as it is called, is a tightly knit collection of computer and communications equipment. Although the computers are of different manufacture and geographically dispersed, today's ARPANET communications and programming enables anyone with a computer terminal, from Hawaii to London, to interact with the network and use all or part of its combined resources.

This bibliography brings together references to the documentation published on the design and operation of ARPANET. It covers the period through 1975 and contains carefully selected references to articles and reports written by or about ARPANET.

Sources of references for this selected bibliography include: the Defense Documentation Center, the National Technical Information Service, the Educational Research Information Center, and other computer data bases. Manual searches were also made of such publications as the *Quarterly Bibliography of Computers and Data Processing*, *Computer Reviews*, *Computer Abstracts*, *Computer and Control Abstracts*, *Engineering Index*, *Applied Science and Technology Index*, *Government Research Reports Announcements*, and the *Science Citation Index*. Internal ARPANET technical documentation such as *Request for Comments* and the *Group Notes Indexes* maintained by the Network Information Center at Stanford Research Institute was also searched.

The bibliography is limited to material written specifically by or about ARPANET. Thus, references to documents on subjects such as network interconnection, computer networking in general, and research conducted on the ARPANET, but having no direct significance to the network's design or development, were omitted.

The bibliography is presented in two parts. Part I is a catalog, in alphabetical sequence by author, containing the full bibliographic references to the 561 items in the bibliography. Part II is a computer produced index (called KWOC, Keyword Out of Context) which will aid the user in locating references by subject and by document number such as AD numbers, NIC numbers, etc.

As part of its contract, and within the restrictions of the copyright law, Becker and Hayes also assembled the actual documents cited in the bibliography. These are available in a companion microfiche file which accompanies the bibliography.

To Jamshid Faryar of the Becker and Hayes staff goes the credit for preparing the bibliography and for locating the supporting materials. He did a superb job. Thanks also to authors of ARPANET material who suggested bibliographic references for inclusion: D. C. Walden, R. M. Metcalfe and L. Kleinrock among others; to the publishers who gave permission for the reproduction of copyrighted materials; to E. J. Feinler and the Network Information Center (NIC) for providing copies of NIC documents; to Carol Finney of the DDC on-line service facility in Los Angeles for processing our orders for NTIS documents; and to Carole Bailey, Nancy Culver and

## 6 - Bibliography

Althea Schultz for keyboarding and proofreading the text. And finally, of course, to Steve Walker and Craig Fields of ARPA for their advice and technical assistance.

In keeping with ARPA's spirit of technological innovation, advanced electronic publishing techniques were employed in the production of the bibliography. Keyboarding was done on IBM Selectric typewriters using an ANSI OCR special typing element. The manuscript was then read directly into the computer using Optical Character Recognition (OCR) equipment; and the resulting computer tape was finally used to drive an electronic photocomposition machine, the RCA Videocomp, to produce the final pages. The tape will also serve as a machine-readable data base and thus enable ARPA to make future revisions to the bibliography or search it on-line.

Joseph Becker

February 15, 1976

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